Carbohydrate Research, 243 (1993) C19–C21
Elsevier Science Publishers B.V., Amsterdam

CONTENTS

Stereochemistry and dynamics of the inclusion complex of (*S*)-(+)-fenoprofen with cyclomaltoheptaose (β-cyclodextrin)
G. Uccello-Barretta, C. Chiavacci, C. Bertucci and P. Salvadori (Pisa, Italy) 1

2,3,4-Tri-*O*-acetyl-1,6-anhydro-β-D-mannopyranose, an artifact produced during carbohydrate analysis. A total synthesis of 2,3,5-tri-*O*-acetyl-1,6-anhydro- β-D-mannofuranose
S. Manna, B.H. McAnalley (Dallas, TX, USA) and H.L. Ammon (College Park, MD, USA) 11

Synthesis of 4-nitrophenyl *O*-(2-acetamido-2-deoxy-β-D-glucopyranosyl)-(1 → 2)-*O*-(6-*O*-methyl-α-D-mannopyranosyl)-(1 → 6)-β-D-glucopyranoside and its 4′,6′-di-*O*-methyl analog. Potential inhibitors of *N*-acetylglucosaminyltransferase V (GnT-V)
S.H. Khan and K.L. Matta (Buffalo, NY, USA) 29

Synthesis of sulfated glucuronyl glycosphingolipids; carbohydrate epitopes of neural cell-adhesion molecules
T. Nakano, Y. Ito and T. Ogawa (Saitama, Japan) 43

Microbial preparation of α,α′-[1,1′-^{13}C]trehalose
N. Asano, K. Matsui (Ishikawa, Japan), S. Takeda (Ibaraki, Japan) and Y. Kono (Tokyo, Japan) 71

Syntheses of nephritogenoside and related compounds
T. Takeda, K. Kojima and Y. Ogihara (Nagoya, Japan) 79

Fructo-oligosaccharides from *Urginea maritima*
W. Praznik and T. Spies (Wien, Austria) 91

Structure of *O*-(2-hydroxyethyl)celluloses with high degrees of molar substitution: a critical evaluation
P.W. Arisz, J.A. Lomax and J.J. Boon (Amsterdam, Netherlands) 99

Molecular size analysis of capsular polysaccharide preparations from *Streptococcus pneumoniae*
B. Bednar and J.P. Hennessey, Jr. (West Point, PA, USA) 115

Structural studies of the *Vibrio mimicus* W-26768 O-antigen polysaccharide
L. Kenne (Uppsala, Sweden), B. Lindberg, M.M. Rahman (Stockholm, Sweden) and M. Mosihuzzaman (Dhaka, Bangladesh) 131

Acceptor–substrate recognition by *N*-acetylglucosaminyltransferase-V: Critical role of the 4″-hydroxyl group in β-D-Glc*p*NAc-(1 → 2)-α-D-Man*p*(1 → 6)-β-D-Glc*p*-OR
O. Kanie, S.C. Crawley, M.M. Palcic and O. Hindsgaul (Edmonton, AB, Canada) 139

Notes

Structure elucidation of methyl 3,4-*O*-isopropylidene-α- and -β-D-galactopyranosides by NMR and X-ray analysis
P.L. Barili, G. Catelani (Pisa, Italy), G. Fabrizi (L'Aquila, Italy) and D. Lamba (Roma, Italy) 165

Synthesis of some sugar cobaloximes and a trifluoroacetic acid-induced fragmentation
R.J. Anderson, B.T. Golding and N.A. Hughes (Newcastle upon Tyne, United Kingdom) 177

Synthesis of *C*-glycosyl compounds: the reaction of acetylated glycals with *tert*-butoxycarbonylmethylzinc bromide
F. Orsini and F. Pelizzoni (Milano, Italy) 183

Partial methanolysis of the agar-type sulfated galactan of the red seaweed *Laurencia gemmifera*
O. Valiente, L.E. Fernandez, R.M. Perez and G. Marquina (Havana City, Cuba) 191

Somatic antigens of pseudomonads: structure of the O-specific polysaccharide of *Pseudomonas syringae* pv. *tomato* 140(R)
Y.A. Knirel, A.S. Shashkov, N.A. Paramonov (Moscow, Russian Federation), G.M. Zdorovenko, L.P. Solyanic and L.M. Yakovleva (Kiev, Ukraine) 199

Somatic antigens of pseudomonads: structure of the O-specific polysaccharide of *Pseudomonas fluorescens* biovar A strain IMV 1152
Y.A. Knirel, N.A. Paramonov, A.S. Shashkov, N.K. Kochetkov (Moscow, Russian Federation), G.M. Zdorovenko, S.N. Veremeychenko and I.Y. Zakharova (Kiev, Ukraine) 205

An influence of the structure of alginate on the chemotactic activity of macrophages and the antitumor activity
M. Fujihara and T. Nagumo (Kanagawa, Japan) 211

Preliminary communication
Stereocontrolled synthesis of chitosan dodecamer
H. Kuyama, Y. Nakahara, T. Nukada, Y. Ito, Y. Nakahara and T. Ogawa (Saitama, Japan) C1

Papers
Structural analysis of methyl α-L-fucopyranoside by X-ray crystallography, NMR spectroscopy, and molecular mechanics calculations
D. Lamba, A.L. Segre (Rome, Italy), G. Fabrizi (L'Aquila, Italy) and B. Matsuhiro (Santiago, Chile) 217

Influence of sulfate and carboxylate groups on the conformation of chondroitin sulfate related disaccharides
M. Zsiška and B. Meyer (Athens, GA, USA) 225

Formation of borate esters from, and sequestration of metal ions by, bis(polyhydroxyalkyl)amines and their *N*-carboxymethyl derivatives studied by ^{11}B and ^{13}C NMR spectroscopy
J. Van Haveren, H. Lammers, J.A. Peters (Delft, Netherlands), J.G. Batelaan (Arnhem, Netherlands) and H. Van Bekkum (Delft, Netherlands) 259

Synthesis and NMR spectroscopic investigation of oligosaccharides containing Kdo and L-*glycero*-D-*manno*-heptopyranosyl residues
A. Hofinger, P. Kosma, R. Christian (Vienna, Austria), K. Bock (Valby, Denmark) and H. Brade (Borstel, Germany) 273

Acyclic molybdate complexes of aldoses in the *arabino* and *xylo* series and their application to the determination of the proportion of acyclic forms in aqueous solution
J.-P. Sauvage, S. Chapelle, A.-M. Dona and J.-F. Verchère (Mont Saint Aignan, France) 293

Structures of the amylopectins of waxy, normal, amylose-extender, and wx:ae genotypes and of the phytoglycogen of maize
S.-H. Yun and N.K. Matheson (Sydney, NSW, Australia) 307

Isolation and characterisation of hemicelluloses from sunflower hulls
A. Bazus, L. Rigal, A. Gaset (Toulouse, France), T. Fontaine, J.-M. Wieruszeski and B. Fournet (Villeneuve d'Ascq, France) 323

Isolation and characterisation of a rhamnogalacturonan II from red wine
T. Doco and J.-M. Brillouet (Montpellier, France) 333

A monoclonal IgMκ from a blood group B individual with specificity for α-galactosyl epitopes on partially hydrolyzed blood group B substance
K.G. Nickerson, J. Liao and E.A. Kabat (New York, NY, USA) 345

Structural characterization of endo-glycanase-generated oligoglycosyl side chains of rhamnogalacturonan I
P. Lerouge, M.A. O'Neill, A.G. Darvill and P. Albersheim (Athens, GA, USA) 359

Notes

The purification of commercially available endo-α-L-arabinanases and α-L-arabinosidase for use in the structural analysis of pectic polysaccharides
P. Lerouge, M.A. O'Neill, A.G. Darvill and P. Albersheim (Athens, GA, USA) 373

NMR spectroscopy of nystose
J.W. Timmermans, P. De Waard, H. Tournois (Wageningen, Netherlands), B.R. Leeflang and J.F.G. Vliegenthart (Utrecht, Netherlands) 379

A convenient synthesis of *N*-acetyllactosamine-linked oligosaccharides from phenyl 3,6,2′,3′,4′,6′-hexa-*O*-acetyl-2-deoxy-2-phthalimido-1-thio-β-lactopyranoside
R.K. Jain, C.F. Piskorz and K.L. Matta (New York, USA) 385

A practical synthesis of 2-azidoethyl α-glycosides: useful spacer-arm glycosides for the synthesis of neoglycoconjugates
G.V.M. Sharma and P.R. Krishna (Hyderabad, India) 393

Isopropylidenation of L-*threo*- and D-*erythro*-trihydroxybutylquinoxalinones. A novel approach to the synthesis of furo[2,3-*b*]quinoxalines
N. Rashed, H.A. Hamid and E.S.H. El Ashry (Alexandria, Egypt) 399

Regiospecific enzymic acylation of butyl α-D-glucopyranoside
J. Fabre, D. Betbeder, F. Paul, P. Monsan and J. Perie (Toulouse, France) 407

Erratum C9

Announcement C11

Author index C13

Subject index C15

Contents C19